# BRUHATH BANGALORE MAHANAGARA PALIKE

## Ward 14, Bagalagunte

| NAME OF WORK : | Construction of CC Roads and CC Drains at 16th A Cross Bagalagunte in Ward no.14, Bagalagunte |
|---|---|
| Estimated Cost | 50.00 Lakhs |

| Sl.No. | Description of work | Measurments | | | | Qty | Unit | Rate | Amount |
|---|---|---|---|---|---|---|---|---|---|
| | | No.s | L | B | D | | | | |
| 1 | Earthwork excavation by manual means in Hard Soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications with all leads and lifts including Conveying the excavated earth silt, debris and over burden earth etc., to lead of 0 to 5kms distance by using private vehicle this includes the cost of loading and unloading charges etc., complete as per the direction of Engineer-in-charge of the work..(PWD SR 2016-17, Page No.142, Item No. 19.2) | | | | | | | | |
| | Rate=Basic rate + 6% of B.R(area weightage) =113.00+6.78=119.78/cum & { Lead charges (2.5X1.28X5)+68= 84.00/Cum} =203.78/Cum | | | | | | | | |
| | for CC drain: | 1 | 2 | 152.00 | 1.20 | 0.90 | 328.32 | | |
| | Culvert | 1 | 1 | 12.00 | 2.89 | 1.50 | 52.02 | | |
| | | | | | | Total qty. | 380.34 | cum | 203.78 | 77506.00 |
| 2 | KSRB 4 -1.3 : Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180 kgs, with 40 mm and down size graded granite metal coarse aggregates @ 0.85 cum and fine aggregates @ 0.57 cum machine mixed, concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, including cost of all materials, labour HOM of machinery curing complete as per specifications. Specification No.KBS 4.1, 4.2 ( PWD SR 2016-17, Page No.12, Item No. 4.3) | | | | | | | | |
| | Rate=Basic rate + 6% of B.R(area weightage) =4867.00+292.02=5159.02/cum | | | | | | | | |
| | for drain | 1 | 2 | 152.00 | 1.20 | 0.15 | 54.72 | | |
| | Culvert | 1 | 1 | 12.00 | 2.89 | 0.20 | 6.93 | | |
| | | | | | | Total qty. | 61.65 | sqm | 5159.02 | 318054.00 |
| 3 | KSRRB M2200-5.9. Design mix M20 with OPC cement @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregates @ 0.46cum, with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008- i) Upto 5 m height. (Pg.No.223, It.no.28.7.9) | | | | | | | | |
| | Rate=Basic rate + 6% of B.R(area weightage) =6571.00+394.26=6965.26/cum | | | | | | | | |
| | bottom of drn | 1 | 2 | 152.00 | 1.20 | 0.15 | 54.72 | | |
| | side walls | 1 | 4 | 152.00 | 0.15 | 0.70 | 63.84 | | |
| | Culvert | 1 | 1 | 12.00 | 2.89 | 0.20 | 6.93 | | |
| | Culvert Walls | 1 | 2 | 12.00 | 0.45 | 2.00 | 21.60 | | |
| | Culvert Slab | 1 | 1 | 12.00 | 2.89 | 0.25 | 8.67 | | |
| | | | | | | Total qty. | 155.76 | sqm | 6965.26 | 1084909.00 |

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|---|---|---|---|---|---|---|---|---|---|---|
| 4 | KSRRB M2200-6. Supplying, fitting and placing TMT bar Fe 500 reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specificationsMORTH Specification No.1600 & 2200 [P. no.17 - I. no.28.8.2] | | | | | | | | | |
| | Rate=Basic rate + 6% of B.R(area weightage) =62719.00+3763.14=66482.14/ton | | | | | | | | | |
| | For CC drains 65 Kgs | | | 111.54 | Cum | 65.00 | 7250.10 | | | |
| | For Cuvlert 100kg/Cum | | | 37.20 | Cum | 100.00 | 3720.00 | | | |
| | | | | | | | 10970.10 | kgs | | |
| | | | | | | **Total qty.** | **10.97** | **ton** | **66482.14** | **729309.00** |
| 5 | KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc,. And removal of form work for **vertical surface** such as walls at any thickness, includig attached pilasters, butresses, plinth cills and string courses cost of all materials, labour complete as per specifications. (Pg. No.15, It. No.4.31) | | | | | | | | | |
| | Rate=Basic rate +6% of B.R(area weightage) =293.00+17.58=310.58/sqm | | | | | | | | | |
| | for drain | 1 | 8 | 152.00 | | 0.70 | 851.20 | | | |
| | | 1 | 4 | 12.00 | | 2.00 | 96.00 | | | |
| | | | | | | **Total qty.** | **947.20** | **sqm** | **310.58** | **294181.00** |
| 6 | Supplying and fixing precast reinforced concrete slab 10 cm thick of mix M20 using 20mm and downsize graded granite metal using reinforcement 10mm dia steel at 150mmc/c bothways cost, transportation, hire charges of machinery, machine cutting the vertical face to get plain even surface etc., complete with all leads and lift conveyance charges, labour charges inclusive of cost of all materials - Data rate approved by Chief Engineer, Dasarahalli zone | | | | | | | | | |
| | Rate=Data rate approved by CE i.e, =1698/sqm | | | | | | | | | |
| | | 1 | 2 | 152.00 | 0.90 | | 273.60 | | | |
| | | | | | | **Total qty.** | **273.60** | **sqm** | **1698.00** | **464573.00** |
| 7 | Providing and fixing Pre cast solid concrete kerb stones made out of No.272.21 CC 1:2:4 with top and bottom width 114 and 165mm respectively, 400mm high and 450mm in length finished with CM1:3 plastering and finishing cutting including form work, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, leads and lifts etc., complete as per the direction of Engineer-in-charge of the work. (PWD SR 2016-17, P. 25, I. 5.30) | | | | | | | | | |
| | Rate=Basic rate +6% of B.R(area weightage) =313.00+18.78=331.78/Nos | | | | | | | | | |
| | | 1 | 2 | 152.00 | | | 304.00 | | | |
| | | | | | | | ***304.00*** | | | |
| | | | | | | **Total qty.** | **676.00** | **Nos** | **331.78** | **224283.00** |
| 8 | KSRRB : Painting two coats after filling the surface with synthetic enamel paint in approved shades on new plastered concrete surfaces, with materials, labour complete as per specifications. (PWD SR 2015-16, Page No. 184, Item No. 24.7) | | | | | | | | | |
| | Rate=Basic rate +6% of B.R(area weightage) =66+3.96=69.96/sqm | | | | | | | | | |
| | | 1 | 2 | 152.00 | | 0.45 | 136.80 | | | |
| | | | | | | **Total qty.** | **136.80** | **sqm** | **69.96** | **9571.00** |

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|---|---|---|---|---|---|---|---|---|---|---|
| 9 | Earthwork excavation by manual means in Ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications with all leads and lifts etc., complete as per the direction of Engineer-in-charge of the work..(PWD SR 2016-17, Page No.142, Item No. 19.1) including Conveying the excavated earth silt, debris and over burden earth etc., to lead of 0 to 5 kms distance by using private vehicle this includes the cost of loading and unloading charges etc., complete as per the direction of Engineer-in-charge of the work | | | | | | | | | |
| | Rate=Basic rate + 6% of B.R(area weightage) =82.00+4.92=86.92/cum & { Lead charges (2.5X1.28X5)+68= 84.00/Cum} =170.92/Cum | | | | | | | | | |
| | for CC road | 1 | 1 | 110.00 | 6.00 | 0.35 | 231.00 | | | |
| | | | | | | Total qty. | 231.00 | cum | 170.92 | 39483.00 |
| 10 | KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications.Page No 149/ Item No. 19.64 PWD SR 2016-17 | | | | | | | | | |
| | Rate=Basic rate +6% of B.R(area weightage) =5.00+0.30=5.30/Sqm | | | | | | | | | |
| | | 1 | 1 | 110.00 | 6.00 | | 660.00 | | | |
| | | | | | | Total qty. | 660.00 | sqm | 5.30 | 3498.00 |
| 11 | Providing, laying, spreading and compacting stone aggregate to wet mix macadam specification including premixing the Material with water at OMC in mechanical mix plant carriage of mixed Material by tipper to site, laying in uniform layers with paver in sub-base / base course on well prepared surface and compacting with vibratory roller to achieve the desired density. Complete as per specifications. MORTH Specification No.406 [P.No.158- It.No20.18] | | | | | | | | | |
| | Rate=Basic rate +6% of B.R(area weightage) =1668+100.08=1768.08/Cum | | | | | | | | | |
| | | 1 | 1 | 110.00 | 6.00 | 0.15 | 99.00 | | | |
| | | | | | | Total qty. | 99.00 | cum | 1768.08 | 175040.00 |
| 12 | KSRRB M600-1: Construction of dry lean cement Concrete mix CC1:5:10 with OPC cement @160kgs, with 25mm and down size graded grnite metal coarse aggragate at 0.86cum and fine aggregates @ 0.58cum sub-base over a prepared sub-grade with (Coarse and fine aggregate conforming to IS:383) aggregate cement ratio not to exceed 15:1 Aggregat gradiation after blending to be asper Table 600-1, cement content not to be less than 160kg/cum, optimum moisture content to be determined during trail length construction, concrete strength not to less than 10Mpa at 7 days, mixed in a batching plant, transported to site, laid with a paver with electronic sensor, compacting with 8-10 tonnes vibratory roller, finishing and curing complete s per specifications( It 22.1 & Page No.176) | | | | | | | | | |
| | Rate=Basic rate +6% of B.R(area weightage) =3761.00+225.66=3986.66/Cum | | | | | | | | | |
| | | 1 | 1 | 110.00 | 6.00 | 0.15 | 99.00 | | | |
| | | | | | | Total qty. | 99.00 | cum | 3986.66 | 394679.00 |

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|---|---|---|---|---|---|---|---|---|---|---|
| 13 | Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 ReaffirmecF2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.43cum) ((P.No.177, I.No.22.6.1 of PW,P&IWTD SR 2016-17) | | | | | | | | | |
| | Rate=Basic rate +6% of B.R(area weightage) =5866.00+351.96=6217.96/Cum | | | | | | | | | |
| | | 1 | 1 | 110.00 | 6.00 | 0.15 | 99.00 | | | |
| | | | | | | **Total qty.** | **99.00** | **cum** | **6217.96** | **615578.00** |
| 14 | Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery,screed vibratory,power Floater,blade and disc etc., with all lead and lift PWD SR 2016-17[P.No.177 -I.No.22.7] | | | | | | | | | |
| | Rate=Basic rate +6% of B.R(area weightage) =90.00+5.40=95.40/Sqm | | | | | | | | | |
| | | 1 | 1 | 110.00 | 6.00 | | 660.00 | | | |
| | | | | | | **Total qty.** | **660.00** | **sqm** | **95.40** | **62964.00** |
| | | | | | | | | | **Sub Total** | **4493628.00** |
| | | | | | | | **KRIDL Charges** | | | **494299.00** |
| | | | | | | | **Miscelleneous and rounding off** | | | **12073.00** |
| | | | | | | | | | **Total** | **5000000.00** |

**(Rupees Fifty Lakhs Only)**

**CERTIFICATE**

1. *Certified that The work spot has been inspected by me and the work is necessary & site condition*
2. *Certified that the work is not split up*
3. *Certified that the estimate is based on PW,P&IWTD Bangalore Circle SR of 2016-17*
4. *Certified that Adequate & necessary provisions have made in the estimate.*
5. *Certified that the above area comes under BBMP limit*
6. *This Work is not included in any other work taken up*

**Asst Engineer**
**Ward-14**

**Assistant Executive Engineer**
**Dasarahalli Sub Division**
**B.B.M.P**

**Excecutive Engineer**
**Dasarahalli Division**
**B.B.M.P**

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